

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Vahid Goudarzi

Customer No. **55794**

Application No. 10/678,834

Examiner: Garcia, Joannie A.

Filed: October 3, 2003

Group Art Unit: 2828

For: METALLIC DAM AND METHOD OF FORMING THEREFOR

**PETITION TO WITHDRAW HOLDING OF ABANDONMENT BASED ON FAILURE TO
RECEIVE OFFICE ACTION UNDER 37 CFR 1.181(a)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant hereby petitions under 37 C.F.R. §1.181(a) for withdrawal of the holding of abandonment. This application has inadvertantly gone abandoned due to errors at the USPTO and Applicant respectfully requests expedient granting of this petition.

Applicant received a Notice of Abandonment dated May 31, 2006, stating we failed to timely file a proper reply to the OfficeAction mailed on March 21, 2005 informing us that our reply of December of December 17 2004 was not fully responsive to the prior office action (mailed to us on November 17, 2004). Applicant indeed timely responded to the Office Action of March 21, 2005 by providing a "Preliminary Amendment and Response To Election of Species Requirement" dated April 11, 2005. The history of this record is clearly shown in Public PAIR.

In several telephone conversations with Examiner Joannie Garcia and Supervisor George Fourson, they acknowledged the oversight or error and attempted to rectify the improper abandonment by the USPTO to no avail. The Applicant also previously sent a letter on December 29, 2006 as suggested by Examiner Fourson outlining this error and the USPTO has yet to provide a formal response resulting in the withdrawal of the abandonment. Thus, once again, Applicant hereby formally requests the withdrawal of the holding of Abandonment.

Attached herewith we are including a copy of the response to the first Office Action of November 17, 2004 and a copy of the response to the second Office Action, dated March 21, 2006, including the Auto-Reply Facsimile Transmission from the USPTO.

We attempted in various opportunities to have our amendments/Election of December 17, 2004 and April 11, 2005 to be entered in the USPTO database and be made of record, but our efforts have been unsuccessful until now.

Applicant submits herewith:

- Exhibit A: Copy of Notice of Abandonment dated May 31, 2005;
- Exhibit B: Copy of timely faxed Amendment dated April 11, 2005, in response to Office Communication dated March 21, 2005.
- Exhibit C: Copy of Office Communication dated **March 21, 2005**.
- Exhibit D: Copy of Preliminary Amendment and Response to Election of Species Requirement dated **December 17, 2004**.
- Exhibit E: Copy of Office Action/Election of Species Requirement dated **November 17, 2004**.
- Exhibit F: Copy of Applicant's Response to Election of Species Requirement, dated **August 24, 2004**.
- Exhibit G: Copy of Restriction Requirement communication dated **July 27, 2004**.

Counsel for Applicant has attempted numerous times to have the Amendments/Election filed on December 17, 2007 (Exhibit D) and April 11, 2005 entered in the U.S. Patent and Trademark Office database and made of record, but the efforts have been unsuccessful.

Note, a Petition under 37 C.F.R. 1.181(a) requesting withdrawal of the holding of abandonment as requested herein does not require a fee.

It is respectfully requested that the Commissioner for Patents enters the Amendment/Election of April 11, 2005 and withhold or withdraw the holding of abandonment status due to USPTO error.

Applicant requests confirmation of the granting of this petition, the removal of the holding of abandonment or revival and the change of correspondence address to the address associated with Customer No. 55794 in writing, and prosecution of the application to take place as soon as possible.

Respectfully submitted,

Date: August 31, 2007

Docket No. 7463-30 (CE11616JME_Goudarzi)

/Pablo Meles/
Pablo Meles, Reg. No. 33,739
AKERMAN SENTERFITT
Post Office Box 3188
West Palm Beach, FL 33402-3188
Telephone: (954) 759-8959

EXHIBIT

"A"



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,834	10/03/2003	Vahid Goudarzi	7463-30	1141
30448	7590	05/31/2006	EXAMINER	
AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			GARCIA, JOANNIE A	
			ART UNIT	PAPER NUMBER
			2823	

DATE MAILED: 05/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Notice of Abandonment

Application No.

10/678,834

Examiner

Joannie A. García

Applicant(s)

VAHID GOUDARZI


Art Unit

2823

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

This application is abandoned in view of:

1. ☒ Applicant's failure to timely file a proper reply to the Office letter mailed on 21 March 2005.
 - (a) ☐ A reply was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply (including a total extension of time of _____ month(s)) which expired on _____.
 - (b) ☐ A proposed reply was received on _____, but it does not constitute a proper reply under 37 CFR 1.113 (a) to the final rejection.
(A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114).
 - (c) ☐ A reply was received on _____ but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).
 - (d) ☒ No reply has been received.
2. ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
 - (a) ☐ The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
 - (b) ☐ The submitted fee of \$_____ is insufficient. A balance of \$_____ is due.
The issue fee required by 37 CFR 1.18 is \$_____. The publication fee, if required by 37 CFR 1.18(d), is \$_____.
 - (c) ☐ The issue fee and publication fee, if applicable, has not been received.
3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
 - (a) ☐ Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
 - (b) ☐ No corrected drawings have been received.
4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.
5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.
6. ☐ The decision by the Board of Patent Appeals and Interference rendered on _____ and because the period for seeking court review of the decision has expired and there are no allowed claims.
7. ☐ The reason(s) below:


GEORGE R. FOURSON
PRIMARY EXAMINER

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

EXHIBIT

"B"

Boca Raton
Fort Lauderdale
Jacksonville
Miami
Orlando
Tallahassee
Tampa
West Palm Beach



222 Lakeview Avenue
4th Floor
West Palm Beach, Florida 33401-6147
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www.akerman.com
561 653 5000 *tel* 561 659 6313 *fax*

FAX COVER SHEET

From: Pablo Meles

Date: April 11, 2005

PLEASE DELIVER 8 PAGE(S) (including cover sheet) TO:

Name: Examiner Joannie A. Garcia

Fax Number: 703-872-9306

Company: USPatent and Trademark Office

Phone Number:

Please call (561) 653-5000, ext. 3434 if you do not receive all the pages.

Comments/Special Instructions

In re Application of: Vahid Goudarzi

Application No. 10/678,834

Examiner: Garcia, Joannie A..

Filed: October 3, 2003

Group Art Unit: 2823

For: METALLIC DAM AND METHOD OF FORMING THEREFOR

Transmitted herewith is Applicant's Election Pursuant to Examiner's Restriction Requirement. Please call Attorney Pablo Meles at 954-759-8959 should you require additional information. Thank you.

The information contained in this transmission may be a confidential attorney-client communication or may otherwise be privileged and confidential, intended only for the use of the individual or entity named above. If the reader of this transmittal is not the intended recipient or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original transmittal to us by mail. Thank you.

Client/Matter No: 142202

Equitrac ID: 6263

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Vahid Goudarzi

Application No. 10/678,834

Examiner: Garcia, Joannie A..

Filed: October 3, 2003

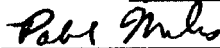
Group Art Unit: 2823

For: METALLIC DAM AND METHOD OF FORMING THEREFOR

**PRELIMINARY AMENDMENT AND RESPONSE TO ELECTION OF SPECIES
REQUIREMENT**

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on April 11, 2004.

 Reg. No. 33,739
Pablo Meles

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

This Preliminary Amendment and Response is in reply to a restriction requirement set forth in the Office Action dated November 17, 2004, in the above-identified application, with a one month shortened statutory period, making a response due on or before December 17, 2004. This response is timely filed.

Please enter the following amendments and comments into the file of the above patent application.

Amendments to the Claims begin on page 2 of the Amendment.

Remarks begin on page 6 of the Amendment.

CLAIMS:

What is claimed is:

1. (original) An method of forming a metallized dam, comprising the steps of:
 applying a metallic adhesive to a printed circuit board having at least one dam pattern thereon; and
 applying a conformal coating about a dam formed around the at least one dam pattern.
2. (original) The method of claim 1, wherein the step of applying the metallic adhesive comprises the step of applying solder paste to the at least one dam pattern.
3. (original) The method claim 2, wherein the step of applying the metallic adhesive further comprises the step of reflowing the solder paste onto the at least one dam pattern.
4. (original) The method of claim 1, wherein the step of applying the metallic adhesive comprises the step of applying solder preform to the at least one dam pattern.
5. (original) The method claim 4, wherein the step of applying the metallic adhesive further comprises the step of reflowing the solder preform on to the at least one dam pattern.
6. (original) The method of claim 1, wherein the method further comprises the step of placing a semiconductor die within the dam before the step of applying the conformal coating.
7. (original) The method of claim 6, wherein the method further comprises the step of wiring bonding the semiconductor die to bonding pads within the dam before the step of applying the conformal coating.

8. (original) The method of claim 1, wherein the step of applying the metallic adhesive comprises the step of screen printing solder paste onto the at least one dam pattern.

9. (original) The method of claim 8, wherein the at least one dam pattern is electrically non-functional and the step of screen printing is adjustable to provide a customized height for the dam.

10. (original) The method of claim 1, wherein the dam has a clearance requirement of less than 47 mils.

11. (original) The method of claim 1, wherein the step of applying a conformal coating about the dam comprises at least one among applying the conformal coating within the dam and applying the conformal coating around the dam.

12. (original) A method of forming a dam, comprising the steps of:
 circumscribing a predetermined area on a substrate with a metallized trace pattern;
 applying solder to the metallized trace pattern; and
 reflowing the solder to form the dam using the solder.

13. (original) The method of claim 12, wherein the step of applying solder comprises the step of applying solder paste to the metallized trace pattern.

14. (original) The method of claim 12, wherein the step of applying the solder comprises the step of applying solder preform to the metallized trace pattern.

15. (original) The method of claim 12, wherein the method further comprises the step of applying a conformal coating about the dam.

16. (original) The method of claim 12, wherein the method further comprises the step of placing a semiconductor die within the dam.
17. (Cancelled) A processed printed circuit board, comprising:
a predetermined area on a substrate defined by a metallized trace pattern; and
solder applied to the metallized trace pattern to form a dam around the predetermined area.
18. (Cancelled) The processed printed circuit board of claim 17, wherein the board further comprises an electronic component within the predetermined area.
19. (Cancelled) The processed printed circuit board of claim 17, wherein the board further comprises a conformal coating applied to the predetermined area.
20. (Cancelled) The processed printed circuit board of claim 18, wherein the board further comprises a conformal coating applied to the predetermined area.
21. (added) An method of forming a metallized dam, comprising the steps of:
applying a metallic adhesive to a substrate having at least one dam pattern thereon; and
forming the metallized dam on the at least one dam pattern using the metallic adhesive.
22. (added) The method of claim 21, wherein the method further comprises the step of applying a conformal coating about the metallized dam.

23. (added) The method of claim 21, wherein the step of applying the metallic adhesive comprises the step of applying solder paste to the at least one dam pattern.

24. (added) The method of claim 22, wherein the method further comprises the step of placing a semiconductor die within the metallized dam before the step of applying the conformal coating.

REMARKS

In a prior Office Action dated July 27, 2004, the Examiner had previously issued an election of the invention to be examined and the Applicant had duly made an election with traverse of "Invention I" encompassing claims 1-16. Subsequently, the Examiner made another Election of Species Requirement within the already elected claims stating that the Applicant is required to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted.

In this regard, the Applicant on December 17, 2004 amended the claims to add generic claims 21 through 24. As a result of the December 17th 2004 Amendment, original claims 1-16 and newly added claims 21-24 were thought to remain. Claims 17-20 were unelected and were reflected as cancelled.

Claims 1-16 were believed to be readable within New generic claim 21, and the previous amendment was that to be submitted as a full and complete Response to the Election mailed November 17, 2004.

Subsequently, another Office Action mailed March 21 was sent to the Applicant stating that Applicant must clearly elect one of two species, namely a first species directed to claims 1-11 OR a second species directed to claims 12-16. *

In this regard, **APPLICANT HEREBY ELECTS the SPECIES DIRECTED TO CLAIMS 12-16 with traverse.** Please note that the Applicant further requests that the Preliminary Amendment previously submitted on December 17, 2004 as further modified herein also be entered. Note, added claim 21 was slightly modified to change "printed circuit board" to "substrate". As stated above, the Applicant believes the added claim 21 is generic to not only claims 12-16, but also to claims 1-11 (or both species). Thus, it is believed claims 1-16 and 21-24 should be examined after entering the amendment.

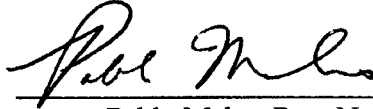
Should the Examiner believe that anything further is necessary in order to place the application in better condition for allowance, the Examiner is respectfully requested to contact Applicants' representative at the telephone number listed below.

No additional fees are believed due; however, the Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, to Deposit Account No. 50-0951.

U.S. Patent Application No. 10/678,834
Response to Restriction Requirement

Docket No. 7463-30

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Pablo Meles", written over a horizontal line.

Date: April 11, 2004

Pablo Meles, Reg. No. 33,739

AKERMAN SENTERFITT

P. O. Box 3188

West Palm Beach, FL 33402-3188

Telephone: (561) 653-5000

Docket No. 7463-30

Auto-Reply Facsimile Transmission



TO:

Fax Sender at 954 463 5503

Fax Information

Date Received:

Total Pages:

4/11/2005 12:06:04 PM [Eastern Daylight Time]

8 (including cover page)

ADVISORY: This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seq.

Received
Cover
Page

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04-11-05 12:10PM FROM: AKERMAN SENTERFITT EIDSON PA	954-463-5503	T-428 P. 01/08 F-987
Akerman Senterfitt ATTORNEYS AT LAW 222 LAKESHORE AVENUE 4th Floor West Palm Beach, Florida 33401-4147 Post Office Box 3188 mail West Palm Beach, Florida 33402-3188 www.akerman.com 561.653.5000 w/ 561.499.6313 fax		
FAX COVER SHEET		
From: Pablo Meles	Date: April 11, 2005	
PLEASE DELIVER <u>8</u> PAGE(S) (including cover sheet) TO:		
Name: Examiner Joannic A. Garcia	Fax Number: 703-872-9306	
Company: US Patent and Trademark Office	Phone Number:	
Please call (561) 653-5000, ext. 3434 if you do not receive all the pages.		
Comments/Special Instructions		
In re Application of: Vahid Goudarzi		
Application No. 10/678,834	Examiner: Garcia, Joannic A..	
Filed: October 3, 2003	Group Art Unit: 2823	
For: METALLIC DAM AND METHOD OF FORMING THEREFOR		
Transmitted herewith is Applicant's Election Pursuant to Examiner's Restriction Requirement. Please call Attorney Pablo Meles at 954-759-8959 should you require additional information. Thank you.		
The information contained in this transmission may be a confidential attorney-client communication or may otherwise be privileged and confidential, intended only for the use of the individual or entity named above. If the reader of this transmittal is not the intended recipient or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original transmittal to us by mail. Thank you.		
Client/Matter No: 162202	EQUIPAC ID: 6263	
(WP195121.1)		
PAGE 1/8 * RCVD AT 4/11/2005 12:06:04 PM [Eastern Daylight Time] * SVR:USPTO-EPXRF-1/1 * DMS:3728304 * CSD:954 463 5503 * DURATION (min-ss): 02-25		

EXHIBIT

"C"



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,834	10/03/2003	Vahid Goudarzi	7463-30	1141
30448	7590	03/21/2005	EXAMINER	
AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			GARCIA, JOANNIE A	
			ART UNIT	PAPER NUMBER
			2823	

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

10 678 834			
APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.

EXAMINER

ART UNIT

PAPER

20050311

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

The reply filed on 12-17-04 is not fully responsive to the prior Office Action because of the following omission(s) or matter(s): Applicant did not clearly elect a specific species group from the restriction requirement filed 11-17-04. The first species is directed to claims 1-11, and the second species is directed to claims 12-16. The Examiner requests that the Applicant clarify which species is elected, in order to be examined. Applicant is advised the the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

See 37 CFR 1.111. Since the above-mentioned reply appears to be *bona fide*, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joannie Garcia whose telephone number is (571) 272-1861. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAG

March 11, 2005

GFourson
Primary Examiner
George Fourson
Primary Examiner
Art Unit 2823

EXHIBIT

"D"

Boca Raton
Fort Lauderdale
Jacksonville
Miami
Orlando
Tallahassee
Tampa
West Palm Beach



Akerman Senterfitt
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West Palm Beach, Florida 33402-3188
www.akerman.com
561 653 5000 *tel* 561 659 6313 *fax*

FAX COVER SHEET

From: Pablo Meles

Date: December 17, 2004

PLEASE DELIVER 7 PAGE(S) (including cover sheet) TO:

Name: Examiner Joannie A. Garcia / *Olik Chaudhuri*
Company: US Patent and Trademark Office

Fax: (571) 273-1855

Fax Number: 703-872-9306

Phone Number:

Please call (561) 653-5000, ext. 3434 if you do not receive all the pages.

Comments/Special Instructions

In re Application of: Vahid Goudarzi

Application No. 10/678,834

Examiner: Garcia, Joannie A..

Filed: October 3, 2003

Group Art Unit: 2823

For: METALLIC DAM AND METHOD OF FORMING THEREFOR

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Client/Matter No: 109666

Equitrac ID: 1647

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Vahid Goudarzi

Application No. 10/678,834

Examiner: Garcia, Joannie A..

Filed: October 3, 2003

Group Art Unit: 2823

For: METALLIC DAM AND METHOD OF FORMING THEREFOR

**PRELIMINARY AMENDMENT AND RESPONSE TO ELECTION OF SPECIES
REQUIREMENT**

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on December 17, 2004.



Reg. No. 33,739

Pablo Meles

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

This Preliminary Amendment and Response is in reply to a restriction requirement set forth in the Office Action dated November 17, 2004, in the above-identified application, with a one month shortened statutory period, making a response due on or before December 17, 2004. This response is timely filed.

Please enter the following amendments and comments into the file of the above patent application.

Amendments to the Claims begin on page 2 of the Amendment.

Remarks begin on page 6 of the Amendment.

CLAIMS:

What is claimed is:

1. (original) An method of forming a metallized dam, comprising the steps of:

applying a metallic adhesive to a printed circuit board having at least one dam pattern thereon; and

applying a conformal coating about a dam formed around the at least one dam pattern.

2. (original) The method of claim 1, wherein the step of applying the metallic adhesive comprises the step of applying solder paste to the at least one dam pattern.

3. (original) The method claim 2, wherein the step of applying the metallic adhesive further comprises the step of reflowing the solder paste onto the at least one dam pattern.

4. (original) The method of claim 1, wherein the step of applying the metallic adhesive comprises the step of applying solder preform to the at least one dam pattern.

5. (original) The method claim 4, wherein the step of applying the metallic adhesive further comprises the step of reflowing the solder preform on to the at least one dam pattern.

6. (original) The method of claim 1, wherein the method further comprises the step of placing a semiconductor die within the dam before the step of applying the conformal coating.

7. (original) The method of claim 6, wherein the method further comprises the step of wiring bonding the semiconductor die to bonding pads within the dam before the step of applying the conformal coating.

8. (original) The method of claim 1, wherein the step of applying the metallic adhesive comprises the step of screen printing solder paste onto the at least one dam pattern.

9. (original) The method of claim 8, wherein the at least one dam pattern is electrically non-functional and the step of screen printing is adjustable to provide a customized height for the dam.

10. (original) The method of claim 1, wherein the dam has a clearance requirement of less than 47 mils.

11. (original) The method of claim 1, wherein the step of applying a conformal coating about the dam comprises at least one among applying the conformal coating within the dam and applying the conformal coating around the dam.

12. (original) A method of forming a dam, comprising the steps of:
 circumscribing a predetermined area on a substrate with a metallized trace pattern;
 applying solder to the metallized trace pattern; and
 reflowing the solder to form the dam using the solder.

13. (original) The method of claim 12, wherein the step of applying solder comprises the step of applying solder paste to the metallized trace pattern.

14. (original) The method of claim 12, wherein the step of applying the solder comprises the step of applying solder preform to the metallized trace pattern.

15. (original) The method of claim 12, wherein the method further comprises the step of applying a conformal coating about the dam.

16. (original) The method of claim 12, wherein the method further comprises the step of placing a semiconductor die within the dam.
17. (Cancelled) A processed printed circuit board, comprising:
a predetermined area on a substrate defined by a metallized trace pattern; and
solder applied to the metallized trace pattern to form a dam around the predetermined area.
18. (Cancelled) The processed printed circuit board of claim 17, wherein the board further comprises an electronic component within the predetermined area.
19. (Cancelled) The processed printed circuit board of claim 17, wherein the board further comprises a conformal coating applied to the predetermined area.
20. (Cancelled) The processed printed circuit board of claim 18, wherein the board further comprises a conformal coating applied to the predetermined area.
21. (added) An method of forming a metallized dam, comprising the steps of:
applying a metallic adhesive to a printed circuit board having at least one dam pattern thereon; and
forming the metallized dam on the at least one dam pattern using the metallic adhesive.
22. (added) The method of claim 21, wherein the method further comprises the step of applying a conformal coating about the metallized dam.

23. (added) The method of claim 21, wherein the step of applying the metallic adhesive comprises the step of applying solder paste to the at least one dam pattern.

24. (added) The method of claim 22, wherein the method further comprises the step of placing a semiconductor die within the metallized dam before the step of applying the conformal coating.

REMARKS

In a prior Office Action dated July 27, 2004, the Examiner had previously issued an election of the invention to be examined and the Applicant had duly made an election with traverse of "Invention I" encompassing claims 1-16. Subsequently, the Examiner made another Election of Species Requirement within the already elected claims stating that the Applicant is required to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted.

In this regard, the Applicant has amended the claims to add generic claims 21 through 24. As a result of this Amendment, original claims 1-16 and newly added claims 21-24. Claims 17-20 were unelected and are herein reflected as cancelled.

Claims 1-16 being readable within New generic claim 21, the foregoing is submitted as a full and complete Response to the Election mailed November 17, 2004, and early and favorable consideration of the claims is requested.

Should the Examiner believe that anything further is necessary in order to place the application in better condition for allowance, the Examiner is respectfully requested to contact Applicants' representative at the telephone number listed below.

No additional fees are believed due; however, the Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, to Deposit Account No. 50-0951.

Respectfully submitted,



Pablo Meles, Reg. No. 33,739
AKERMAN SENTERFITT
P. O. Box 3188
West Palm Beach, FL 33402-3188
Telephone: (561) 653-5000

Date: December 17, 2004

Docket No. 7463-30

Auto-Reply Facsimile Transmission



TO: Fax Sender at 9544632224

Fax Information
Date Received: 12/17/2004 3:13:48 PM [Eastern Standard Time]
Total Pages: 7 (including cover page)

ADVISORY: This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seq.

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DEC-17-04 03:13 PM	FROM: AKERMAN SENTERFITT	9544632224	T-004 P.01/07 F-750
Akerman Senterfitt ATTORNEYS AT LAW 222 Lakeview Avenue 4th Floor West Palm Beach, Florida 33401-4107 Fort Office Box 3389 mail West Palm Beach, Florida 33402-3188 www.akersen.com 561 653 5000 ext 3436 561 659 6313 fax			
FAX COVER SHEET			
From: Pablo Meles		Date: December 17, 2004	
PLEASE DELIVER <u>7</u> PAGE(S) (including cover sheet) TO:			
Name:	Examiner Joannie A. Garcia	Fax Number:	703-872-9306
Company:	US Patent and Trademark Office	Phone Number:	
Please call (561) 653-5000, ext. 3436 if you do not receive all the pages.			
Comments/Special Instructions			
In re Application of: Vahid Goudarzi			
Application No. 10/678,834		Examiner: Garcia, Joannie A.	
Filed: October 3, 2003		Group Art Unit: 2823	
For: METALLIC DAM AND METHOD OF FORMING THEREFOR			
Transmitted herewith is Applicant's Election Pursuant to Examiner's Restriction Requirement. Please call Attorney Pablo Meles at 954-759-8959 should you require additional information. Thank you.			
The information contained in this transmission may be a confidential attorney-client communication or may otherwise be privileged and confidential, intended only for the use of the individual or entity named above. If the reader of this transmittal is not the intended recipient or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original transmittal to us by mail. Thank you.			
Client/Matter No: 109958		Equitas ID: 1847	
{00105131}			
PAGE 17 * RCVD AT 12/17/2004 3:13:48 PM [Eastern Standard Time] * SVR:USPTO-EFTRF-113 * DNR:372636 * CND:9544632224 * DURATION (mm:ss):02:42			

EXHIBIT

"E"



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,834	10/03/2003	Vahid Goudarzi	7463-30	1141
30448	7590	11/17/2004	EXAMINER	
AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			GARCIA, JOANNIE A	
			ART UNIT	PAPER NUMBER
			2823	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED
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AKERMAN SENTERFITT, P.A.

Office Action Summary

Application No.

10/678,834

Applicant(s)

GOUDARZI, VAHID

Examiner

Joannie A Garcia

Art Unit

2823

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 17-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-16 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

This application contains claims directed to the following patentably distinct species of the claimed invention: The first specie wherein a metallic adhesive is applied to a printed circuit board having at least one dam pattern thereon, and applying a conformal coating about a dam formed around the at least one dam pattern, as recited in claim 1; and the second specie wherein a predetermined area is circumscribed on a substrate with a metallized trace pattern, applying solder to the metallized trace pattern, and reflowing the solder to form the dam using the solder, as recited in claim 12.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the

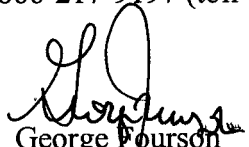
Art Unit: 2823

examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joannie García whose telephone number is (571) 272-1861. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


George Fourson
Primary Examiner
Art Unit 2823



JAG

November 2, 2004

GFourson
Primary Examiner

EXHIBIT

"F"

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Orlando
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Tampa
West Palm Beach

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561 653 5000 *tel* 561 659 6313 *fax*

FAX COVER SHEET

From: Pablo Meles

Date: August 24, 2004

PLEASE DELIVER 3 PAGE(S) (including cover sheet) TO:

Name: Examiner Joannie A. Garcia

Fax Number: 703-872-9306

Company: USPatent and Trademark Office

Phone Number:

Please call (561) 653-5000, ext. 3434 if you do not receive all the pages.

Comments/Special Instructions

In re Application of: Vahid Goudarzi

Application No. 10/678,834

Examiner: Garcia, Joannie A..

Filed: October 3, 2003

Group Art Unit: 2823

For: METALLIC DAM AND METHOD OF FORMING THEREFOR

Transmitted herewith is Applicant's Election Pursuant to Examiner's Restriction Requirement. Please call Attorney Pablo Meles at 954-759-8959 should you require additional information. Thank you.

The information contained in this transmission may be a confidential attorney-client communication or may otherwise be privileged and confidential, intended only for the use of the individual or entity named above. If the reader of this transmittal is not the intended recipient or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original transmittal to us by mail. Thank you.

Client/Matter No: 109666

Equitrac ID: 1647

{WP195131;1}

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Vahid Goudarzi

Application No. 10/678,834

Examiner: Garcia, Joannie A..

Filed: October 3, 2003


Group Art Unit: 2823

For: METALLIC DAM AND METHOD OF FORMING THEREFOR

RESPONSE TO ELECTION OF SPECIES REQUIREMENT

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on August 24, 2004.

 Reg. No. 33,739
Pablo Meles

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

This response is in reply to a restriction requirement set forth in the Office Action dated July 27, 2004, in the above-identified application, with a one month shortened statutory period, making a response due on or before August 27, 2004. This response is timely filed and is merely confirming the voicemail regarding our election.

REMARKS

In the above-identified Office Action, the Examiner has issued an election of the invention to be examined and asserts that the application contains the following patentably distinct claimed inventions:

- I. Claims 1-16 drawn to a method, classified in class 438, subclass 118.
- II. Claims 17-20, drawn to a device, classified in class 257, subclass 779.

The Applicant hereby elects with traverse **Invention I** corresponding to claims 1-16.

The foregoing is submitted as a full and complete Response to the Election mailed July 27, 2004, and early and favorable consideration of the claims is requested.

U.S. Patent Application No. 10/678,834
Response to Restriction Requirement

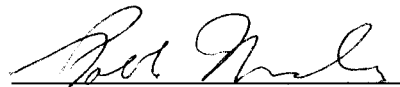
Docket No. 7463-30

Should the Examiner believe that anything further is necessary in order to place the application in better condition for allowance, the Examiner is respectfully requested to contact Applicants' representative at the telephone number listed below.

No additional fees are believed due; however, the Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, to Deposit Account No. 50-0951.

Respectfully submitted,

Date: August 24, 2004



Pablo Meles, Reg. No. 33,739

AKERMAN SENTERFITT

P. O. Box 3188

West Palm Beach, FL 33402-3188

Telephone: (561) 653-5000

Docket No. 7463-30



Fax Sender at 5616596313

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3 (including cover page)

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T-343 P 01/03 Job-57

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West Palm Beach, Florida 33402-3188
www.akotman.com
661.659.5000 tel 561.659.6313 fax

Date: August 24, 2004

Fax Number: 703-872-9306
Phone Number:

Comments/Special Instructions

Examiner: Garcia, Joannic A.

Group Art Unit: 2823

Transmitted herewith is Applicant's Election Pursuant to Examiner's Restriction Requirement. Please call Attorney Pablo Meles at 954-759-8959 should you require additional information. Thank you.

(WP195731-13)

EXHIBIT

"G"



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,834	10/03/2003	Vahid Goudarzi	7463-30	1141
30448	7590	07/27/2004	EXAMINER	
AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			GARCIA, JOANNIE A	
			ART UNIT	PAPER NUMBER
			2823	

DATE MAILED: 07/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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JUL 30 2004

AKERMAN SENTERFITT P.A.

Office Action Summary

Application No.

10/678,834

Applicant(s)

GOUDARZI, VAHID

Examiner

Joannie A Garcia

Art Unit

2823

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-20 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-16, drawn to method, classified in class 438, subclass 118.

II. Claims 17-20, drawn to device, classified in class 257, subclass 779.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, such as one that does not include applying a metallic adhesive to a printed circuit board.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

Art Unit: 2823

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956 until 2/4/04. See MPEP 203.08.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Joannie Adelle García whose telephone number is (571) 272-1861. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax number for this group is 703-872-9306 for before final submissions, (703-872-9306) for after final submissions and the customer service number for group 2800 is (703) 872-9317. Updates can be found at <http://www.uspto.gov/web/info/2800.htm>.


JAG

July 23, 2004

George Fourson
Primary Examiner
Art Unit 2823
(571) 272-1860


George Fourson
Primary Examiner
Art Unit 2823